

FIG. 1

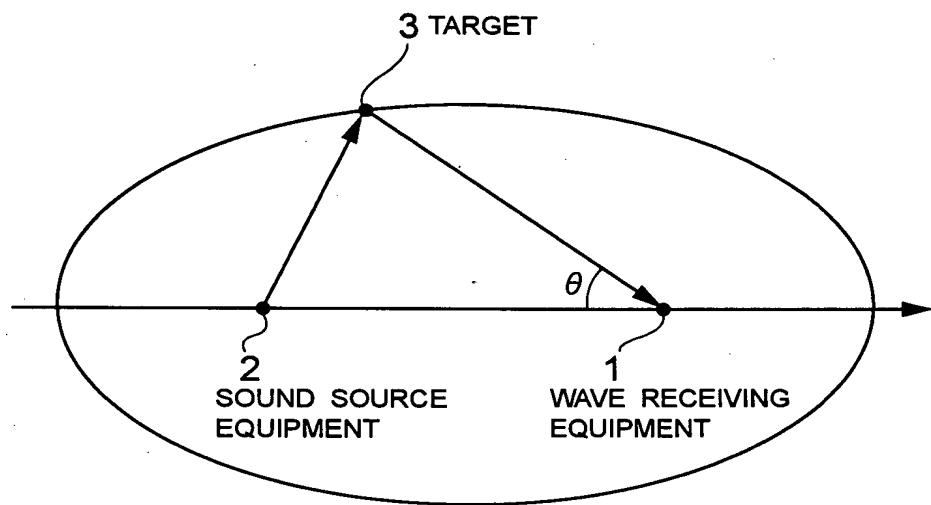
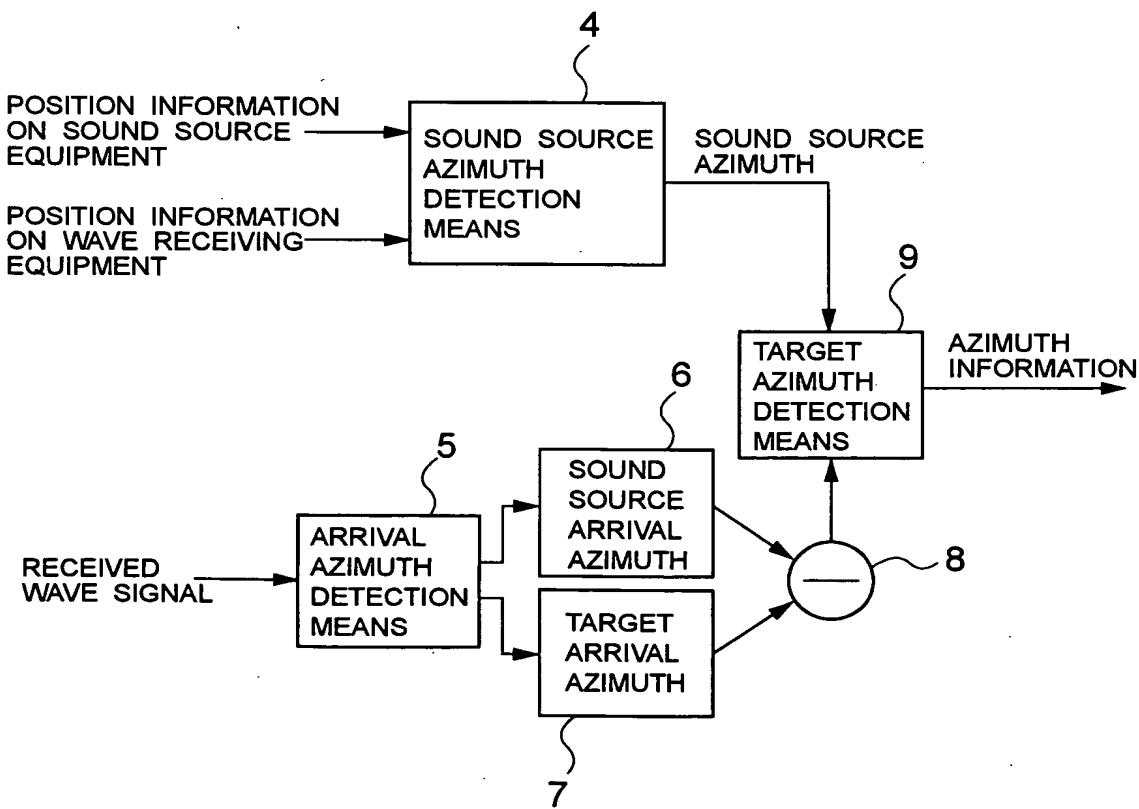


FIG. 2



**FIG. 3**

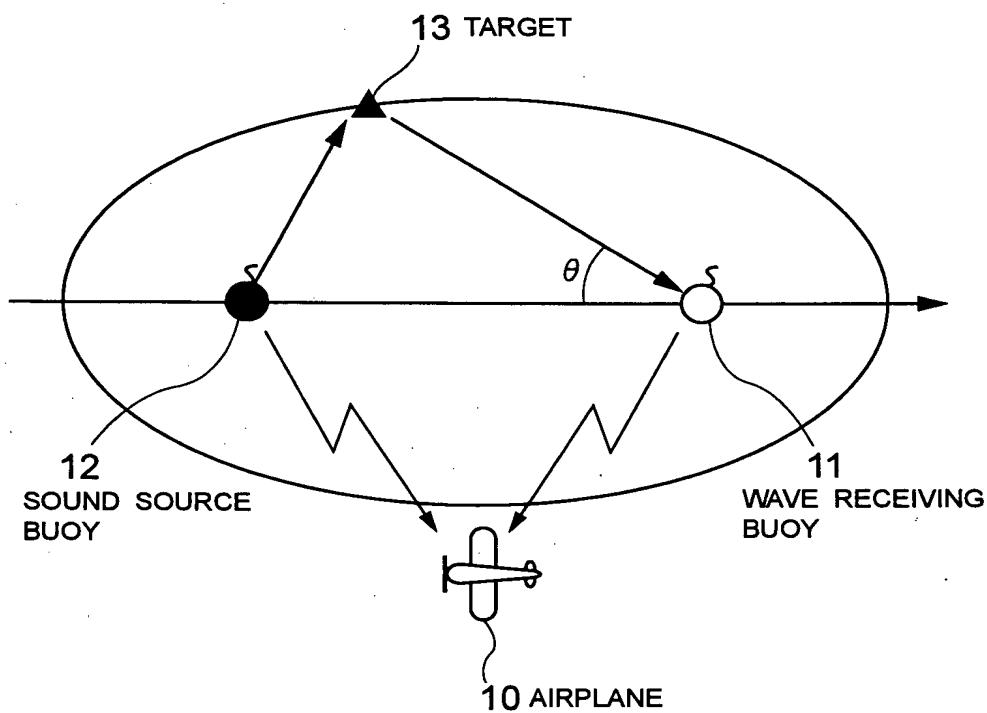
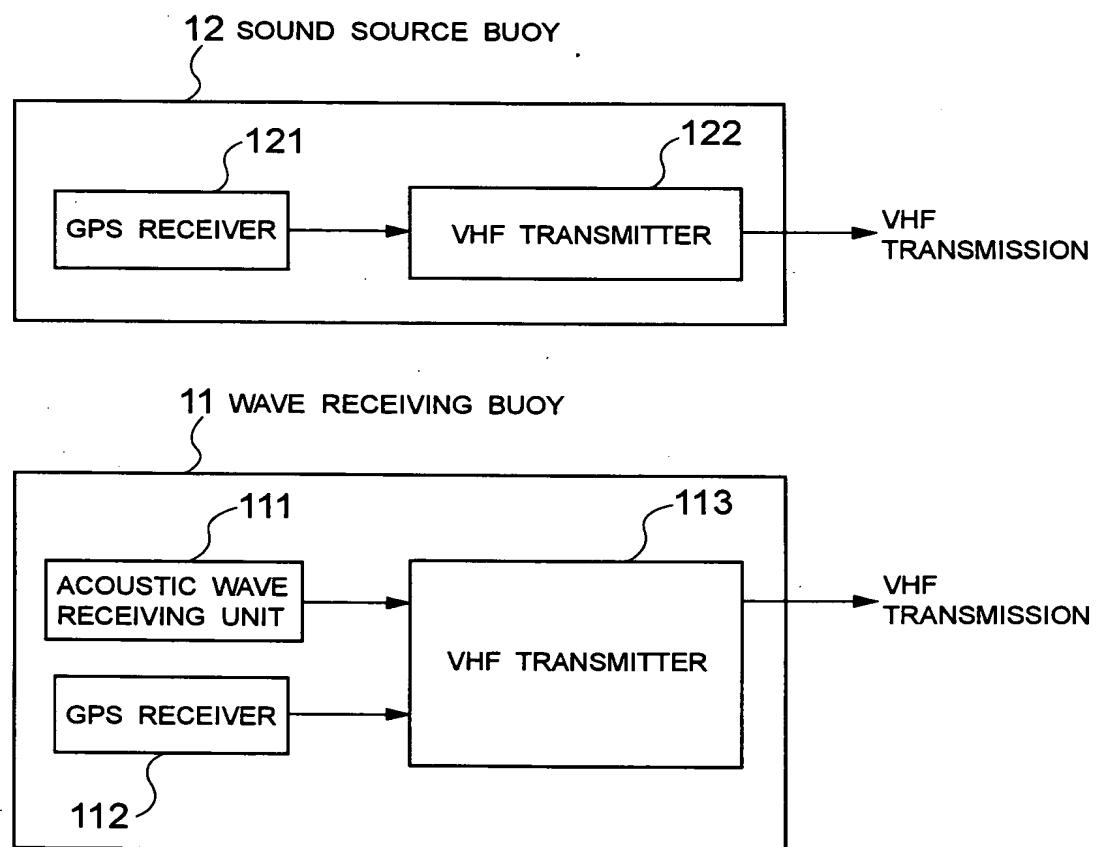
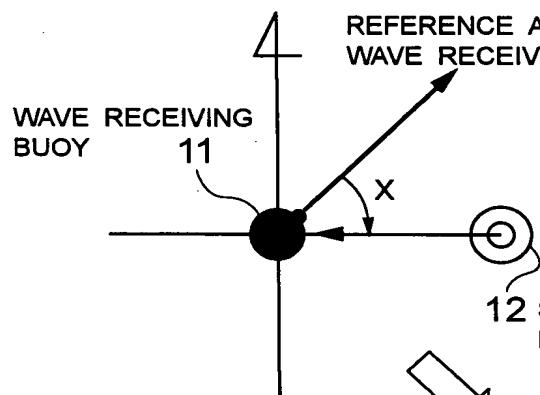


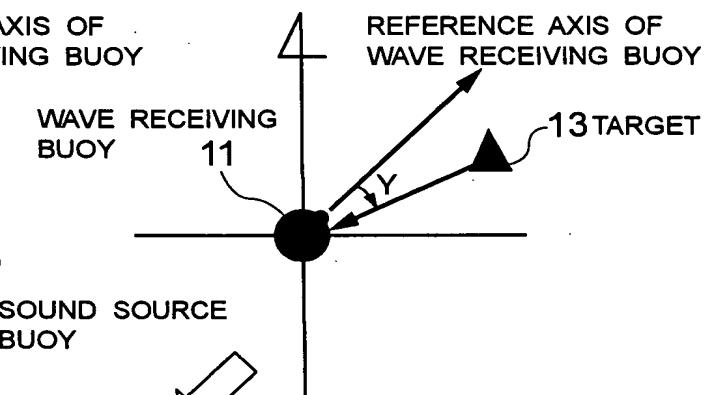
FIG. 4



**FIG. 5A** SOUND SOURCE ARRIVAL AZIMUTH



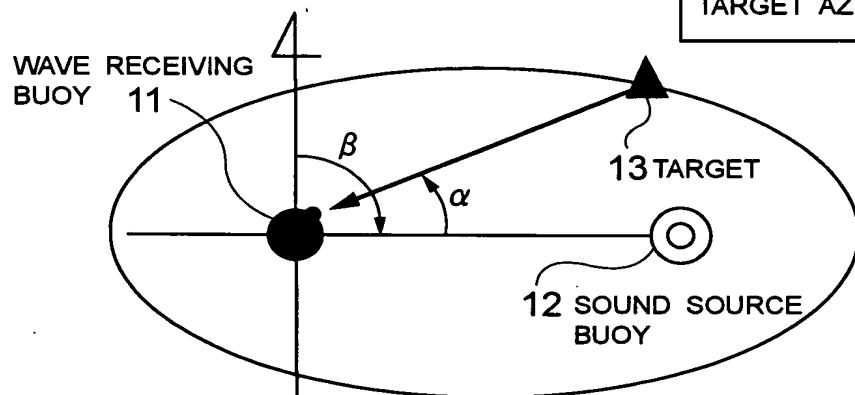
**FIG. 5B** TARGET ARRIVAL AZIMUTH



$$\alpha = X - Y$$

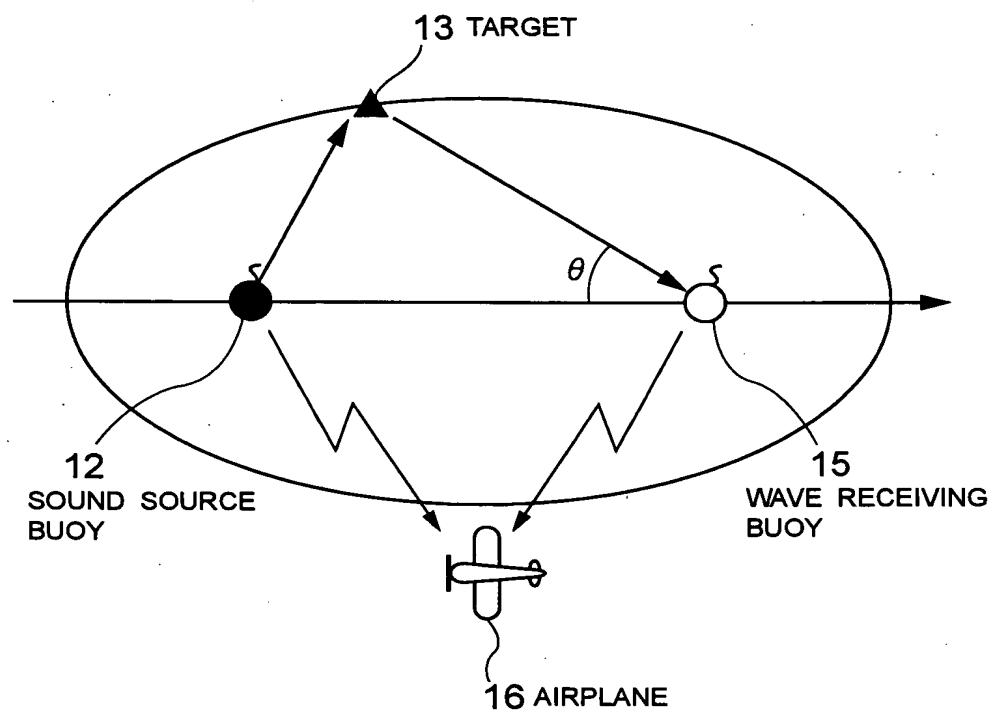
**FIG. 5C** TRANSITION DIAGRAM (GPS)

$$\text{TARGET AZIMUTH} = \beta - \alpha$$



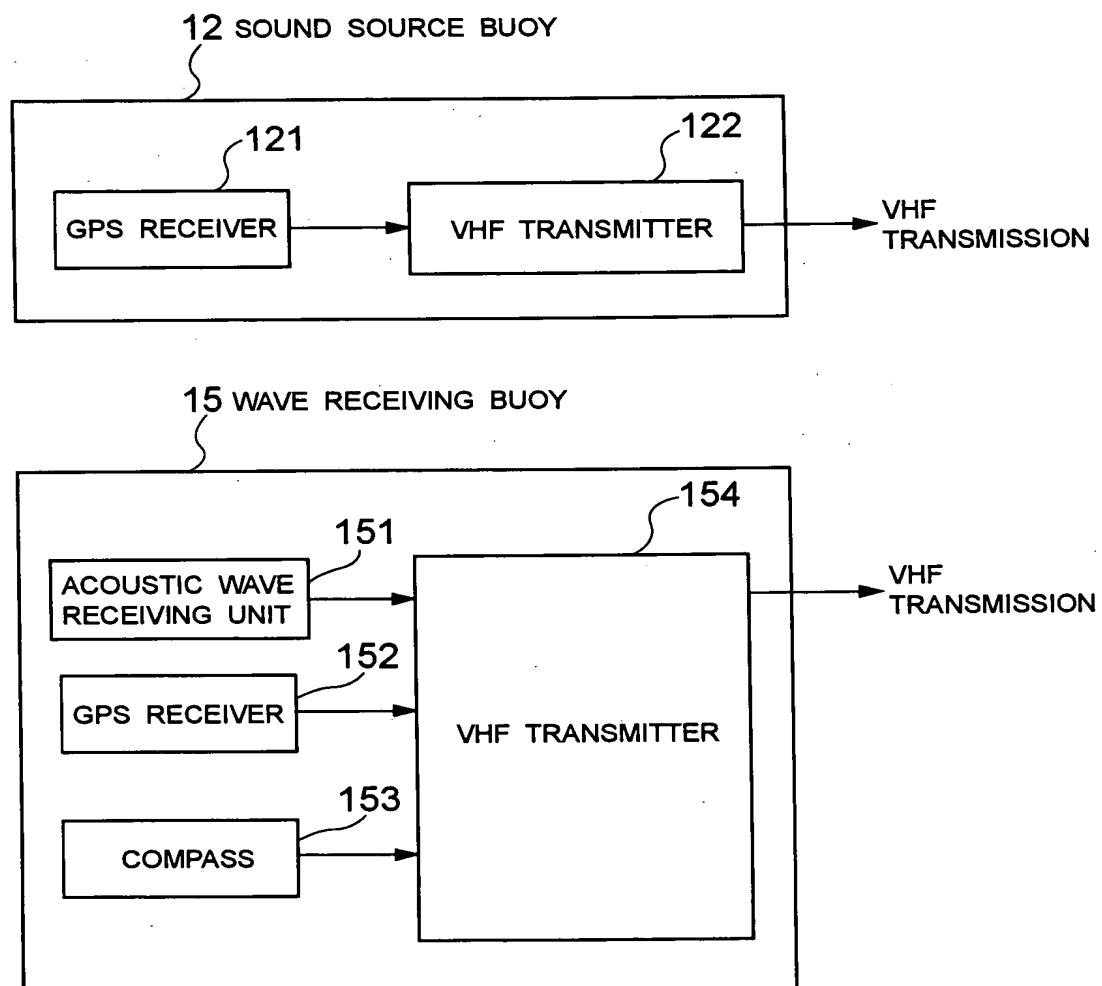
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FIG. 6



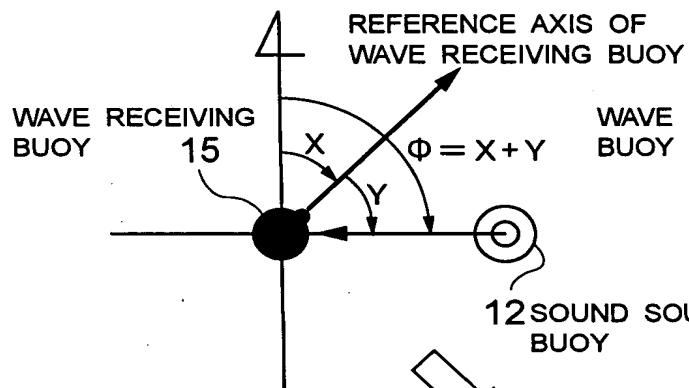
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FIG. 7



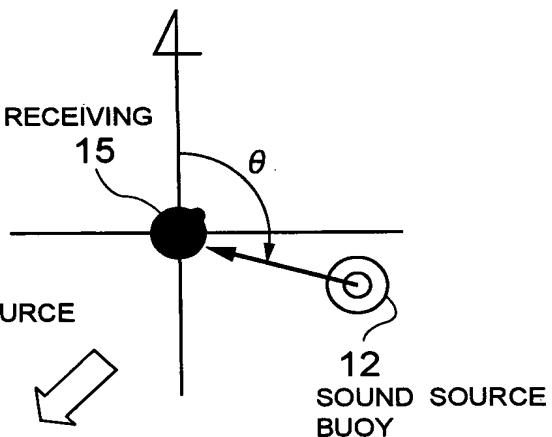
**FIG. 8A**

DETECTION USING  
COMPASS

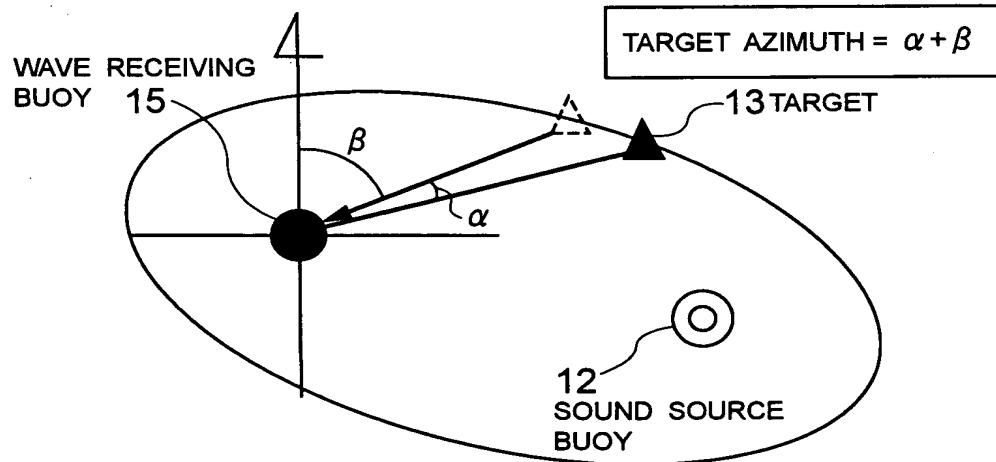


**FIG. 8B**

DETECTION USING  
GPS



**FIG. 8C** TRANSITION  
DIAGRAM



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FIG. 9

